

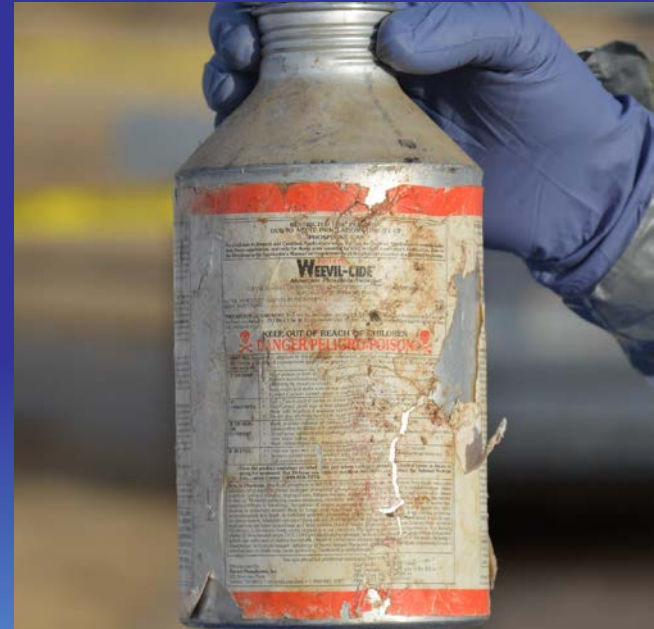
REDACTED VERSION

(b) (6)

(b) (6)

Amarillo Phosphine

Incident Details



Location: Amarillo, Tx

Chemical: Restricted use Pesticide (Weevil-Cide Pellets; Aluminum Phosphide)

Threat: Reacts with water to create phosphine gas. Four (4) children died and the other six (6) residents were hospitalized in critical condition.



(b) (6)

North of Site

(b) (6)

West of Site

South of Site

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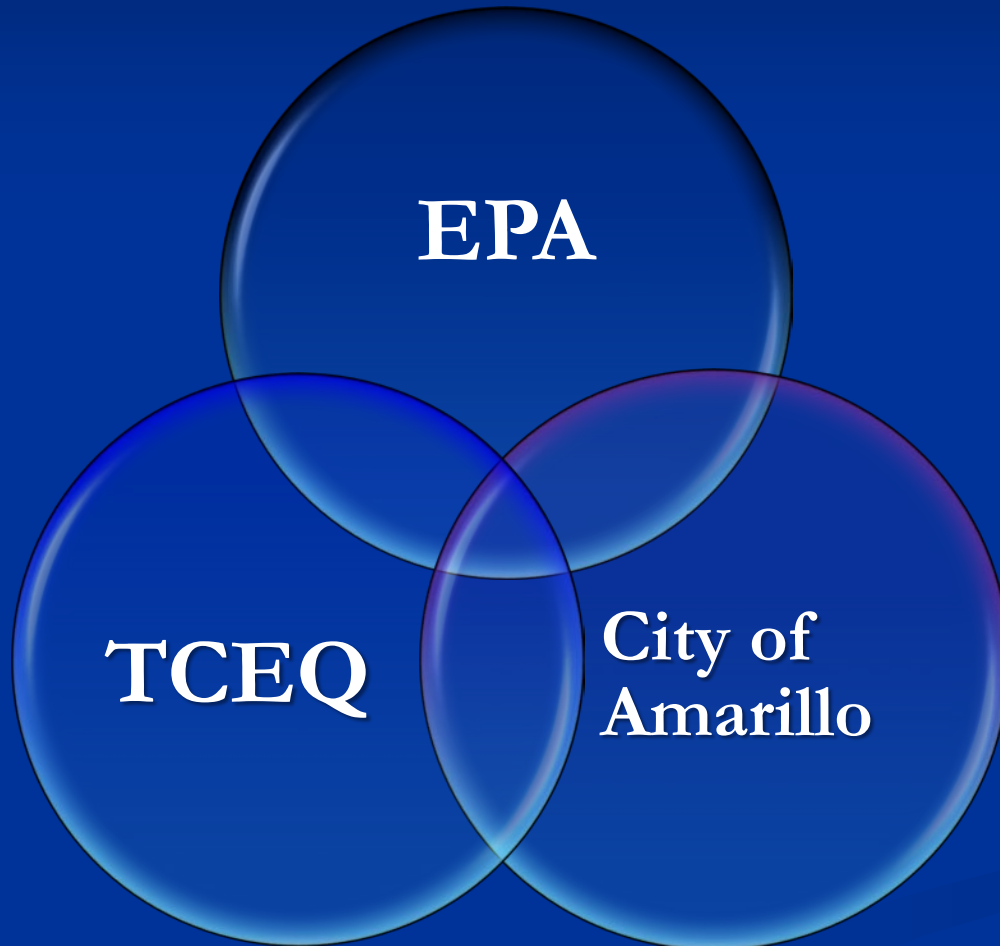
Google



(b) (6)

EPA Mobilized: 01.02.17

Unified Command Established: 01.03.17

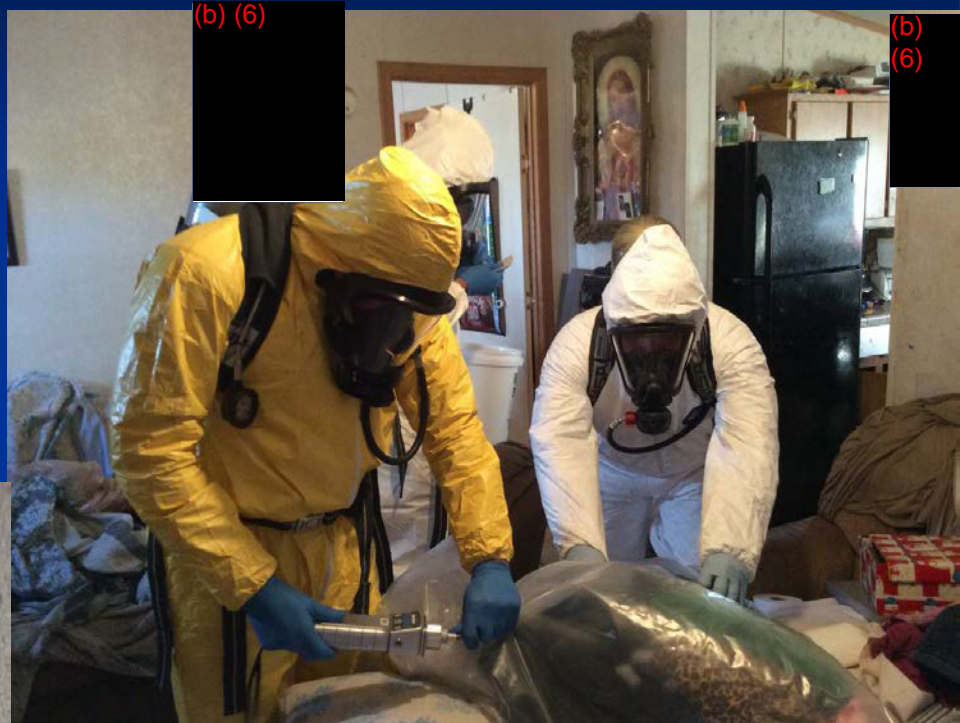


- ✓ Office of Emergency Mgmt (OEM)
- ✓ Baptist Saint Anthony's (BSA) Hospital
- ✓ Environmental Health
- ✓ Animal Management and Welfare
- ✓ Fire Department
- ✓ Police Department
- ✓ Special Crimes Unit
- ✓ Assistant City Manager
- ✓ Office of Public Communications and Community Engagement
- ✓ Building Safety
- ✓ Veterinarian, and others.

Work Distribution

EPA:

Air Monitoring and Sampling



TCEQ:

Cleanup Contractor

Work Distribution-Continued

Local

- ✓ Site Security
- ✓ Special Crimes Unit
- ✓ Interaction with Residents
- ✓ Industrial Waste/Lab
- ✓ Press Releases

EPA Multi-Media Division

- ✓ Daily Updates
- ✓ TDA Investigation

➤ Local Health Department and Building Safety (Indoor Air Authority)

- ✓ Potential Rehabilitation of house

Supporting Local Health

- ✓ EPA
- ✓ ATSDR
- ✓ Local HD/Texas Tech
- ✓ Tx Dept of State Health Services
- ✓ Tx Poison Control

Air monitoring

(Indoor and Perimeter)

IAP (Signed by Unified Command):

“Air monitoring for seven (7) cumulative days at temperatures 50 degrees F or greater with Phosphine gas detection readings less than 0.1 ppm”

Completed: January 23, 2017

Confirmation Sampling

ORD

CMAD

Houston Lab

START

OARM-NHSRC

ERT

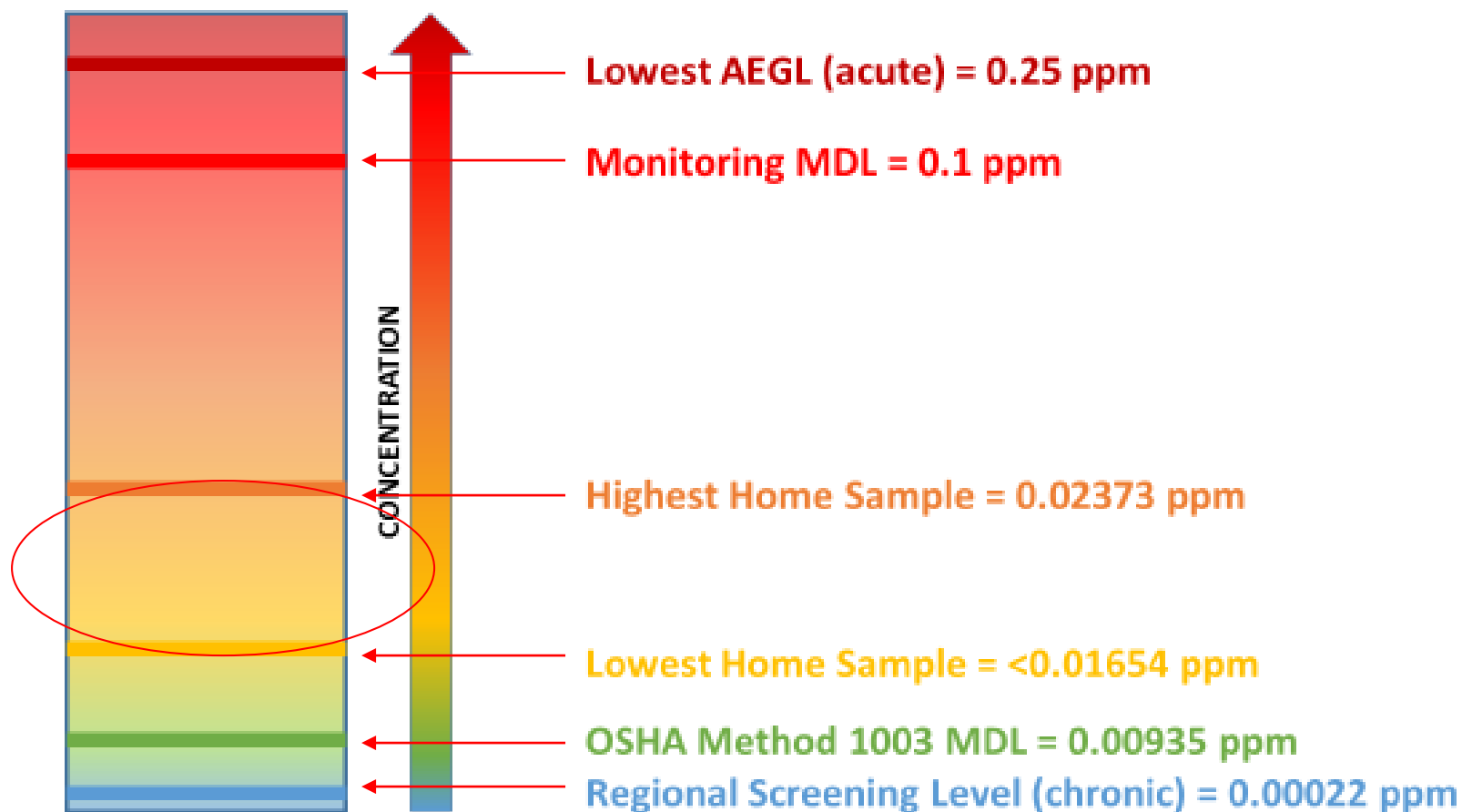
Date Sampled: January 28, 2017

IAP SIGNED BY UNIFIED COMMAND

“Final sampling plan utilizes OSHA Method 1003 for Phosphine Gas with a detection level of 10 ppb or $13 \mu\text{g}/\text{m}^3$ (**0.00935 ppm**) or less at agreed upon locations”

***Limitation:** No Laboratory could meet the EPA Residential Screening level (**0.0002 ppm**)

Phosphine Detection Limits and Risk Assessment Levels



Preliminary Data

1703278pelim_BH_Results.pdf - Word

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Workorder:
Client Project ID: PH3-BR1-28012017-81 012617
Purchase Order: 6-013017-075134-0001 Project
Manager: Paul Pope

Analytical Results

Sample ID: PH3-BR1-28012017-81 Lab ID: 1703278001	Sampling Location: Bedroom 1	Collected: 01/26/2017 Received: 01/31/2017
Method: OSHA 1003 Mod.	Media: SKC 225-9018, Glass fiber & polyester filter (Mercuric chloride on polyester)	Prepared: 01/31/2017
	Sampling Parameter: Air Volume 240 L	Analyzed: 02/01/2017
Analyte	Result (ug/sample)	Result (mg/m ³)
Phosphine	6.3	0.026
		RL (ug/sample)
		5.5
Sample ID: PH3-BR2-28012017-81 Lab ID: 1703278002	Sampling Location: Bedroom 2	Collected: 01/26/2017 Received: 01/31/2017
Method: OSHA 1003 Mod.	Media: SKC 225-9018, Glass fiber & polyester filter (Mercuric chloride on polyester)	Prepared: 01/31/2017
	Sampling Parameter: Air Volume 240 L	Analyzed: 02/01/2017
Analyte	Result (ug/sample)	Result (mg/m ³)
Phosphine	6.4	0.027
		RL (ug/sample)
		5.5
Sample ID: PH3-BR3-28012017-81 Lab ID: 1703278003	Sampling Location: Bedroom 3	Collected: 01/26/2017 Received: 01/31/2017
Method: OSHA 1003 Mod.	Media: SKC 225-9018, Glass fiber & polyester filter (Mercuric chloride on polyester)	Prepared: 01/31/2017
	Sampling Parameter: Air Volume 240 L	Analyzed: 02/01/2017
	Result	

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10:01 AM
2/15/2017

Received and Distributed to Unified Command: February 2, 2017

Collected 9 Indoor Air Samples

Results ranged from < 0.01654 ppm – 0.02373 ppm

Next Steps

- ✓ Share Final Data with Locals
- ✓ UC will determine if additional sampling is needed